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1 A modified Zernike moment shape descriptor invariant to translation, rotation and scale for similarity-based image retrieval

Hae-Kwang Kim; Jong-Deuk Kim; Dong-Gyu Sim; Dae-Il Oh;
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 1 , 30 July-2 Aug. 2000
Pages:307 - 310 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) **IEEE CNF**

2 Image analysis with Zernike moment descriptors

Liao, S.X.; Pawlak, M.;
Electrical and Computer Engineering, 1997. IEEE 1997 Canadian Conference on , Volume: 2 , 25-28 May 1997
Pages:700 - 703 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(356 KB\)\]](#) **IEEE CNF**

3 Invariant image recognition by Zernike moments

Khotanzad, A.; Hong, Y.H.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 12 , Issue: 5 , May 1990
Pages:489 - 497

[\[Abstract\]](#) [\[PDF Full-Text \(772 KB\)\]](#) **IEEE JNL**

4 Zernike moment-based feature detectors

Ghosal, S.; Mehrotra, R.;
Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference , Volume: 1 , 13-16 Nov. 1994
Pages:934 - 938 vol.1



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Cortes, E.;

Condition Monitoring for Fault Diagnosis, IEE Colloquium on , 18 Oct 1991
Pages:4/1 - 414[\[Abstract\]](#) [\[PDF Full-Text \(532 KB\)\]](#) **IEE CNF****2 LORA: robust and simple routing algorithms for ad hoc mobile wireless networks**

Mung Chiang; Carlsson, G.;

Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE , Volume 4 , 25-29 Nov. 2001
Pages:2793 - 2797 vol.5[\[Abstract\]](#) [\[PDF Full-Text \(59 KB\)\]](#) **IEEE CNF****3 IEE Colloquium on 'Condition Monitoring for Fault Diagnosis' (Digest No.156)**

Condition Monitoring for Fault Diagnosis, IEE Colloquium on , 18 Oct 1991

[\[Abstract\]](#) [\[PDF Full-Text \(96 KB\)\]](#) **IEE CNF****4 Engineering and the law. The Supreme Court rules on medical device liability—or does it?**

Richards, E.P.;

Engineering in Medicine and Biology Magazine, IEEE , Volume: 16 , Issue: 1 , Feb. 1997

Pages:87 - 88, 90

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John Colter, Netscape Navigator

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Result page: **1** [2](#) [next](#)Relevance scale **1** [Transmission-efficient routing in wireless networks using link-state information](#) 

J. J. Garcia-Luna-Aceves, Marcelo Spohn

June 2001 **Mobile Networks and Applications**, Volume 6 Issue 3Full text available:  [pdf\(315.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The efficiency with which the routing protocol of a multihop packet-radio network uses transmission bandwidth is critical to the ability of the network nodes to conserve energy. We present and verify the source-tree adaptive routing (STAR) protocol, which we show through simulation experiments to be far more efficient than both table-driven and on-demand routing protocols proposed for wireless networks in the recent past. A router in STAR communicates to its neighbors the parameters of its ...

Keywords: link-state routing protocol, mobile wireless networks, source routing tree

2 [Session 6D: agent analysis and validation: Model checking multi-agent systems with MABLE](#) 

Michael Wooldridge, Michael Fisher, Marc-Philippe Huget, Simon Parsons

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**Full text available:  [pdf\(130.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MABLE is a language for the design and automatic verification of multi-agent systems. MABLE is essentially a conventional imperative programming language, enriched by constructs from the agent-oriented programming paradigm. A MABLE system contains a number of agents, programmed using the MABLE imperative programming language. Agents in MABLE have a mental state consisting of beliefs, desires and intentions. Agents communicate using request and inform performatives, in the style of the fipa agent ...

Keywords: agents, model checking, programming, verification

3 [Book reviews](#) 

Karen T. Sutherland

March 2001 **intelligence**, Volume 12 Issue 1Full text available:   [pdf\(88.41 KB\)](#) [html\(34.55 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

4 Interdisciplinary capstone group project: designing autonomous race vehicles

Steve Mosiman, Christoph Hiemcke

March 2000 **ACM SIGCSE Bulletin , Proceedings of the thirty-first SIGCSE technical symposium on Computer science education**, Volume 32 Issue 1Full text available:  pdf(488.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We, the authors, have each managed group projects for our respective senior majors for some time. Three years ago we combined the senior courses and each project team is now composed of both computer science and engineering majors. We were motivated by the desire to broaden the senior experience in both disciplines as well as to use the projects to attract prospective majors. The most recent project was to build autonomous line-tracking vehicles for racing. Since the computer scientists do ...

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4Full text available:  pdf(6.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

6 An extension of the relational data model to incorporate ordered domainsSeptember 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 3Full text available:  pdf(446.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We extend the relational data model to incorporate partial orderings into data domains, which we call the ordered relational model. Within the extended model, we define the partially ordered relational algebra (the PORA) by allowing the ordering predicate $\&sqsubseteq$ to be used in formulae of the selection operator (σ). The PORA expresses exactly the set of all possible relations that are invariant under order-preserving automorphism of databases. This result characterizes the expressiveness ...

Keywords: Axiom system, chase rules, implication problem, language expressiveness, lexicographical ordering, mixed ordering, nonuniform completeness, order-preserving database automorphism, ordered SQL, ordered functional dependencies, ordered relational model, ordered relations, partially ordered domains, partially ordered relational algebra, pointwise ordering, tableaux, valuation mapping

7 Mobile Ad Hoc networking and the IETF

Joseph P. Macker, M. Scott Corson

January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1Full text available:  pdf(483.96 KB) Additional Information: [full citation](#), [index terms](#)

8 [Corporate pioneers—lessons learned: introducing and promoting usability testing in a corporate environment](#)

Lora Davenport

April 1996 **Conference companion on Human factors in computing systems: common ground**

Full text available:  [pdf\(75.15 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Keywords: corporate environment, quality, testing, tools, usability

9 [Posters: Model checking for ACL compliance verification](#)

Marc-Philippe Huget, Michael Wooldridge

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available:  [pdf\(125.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of checking that agents correctly implement the semantics of an agent communication language has become increasingly important as agent technology makes its transition from the research laboratory to field-tested applications. In this paper, we show how model checking techniques can be applied this problem. Model checking is a technique developed within the formal methods community for automatically verifying that finite-state concurrent systems implement temporal logic specification ...

Keywords: agent communication language, agents, model checking, semantics, verification

10 [VISTA: a system for interactive code improvement](#)

Wankang Zhao, Baosheng Cai, David Whalley, Mark W. Bailey, Robert van Engelen, Xin Yuan, Jason D. Hiser, Jack W. Davidson, Kyle Gallivan, Douglas L. Jones

June 2002 **ACM SIGPLAN Notices , Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems**, Volume 37 Issue 7

Full text available:  [pdf\(369.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software designers face many challenges when developing applications for embedded systems. A major challenge is meeting the conflicting constraints of speed, code density, and power consumption. Traditional optimizing compiler technology is usually of little help in addressing this challenge. To meet speed, power, and size constraints, application developers typically resort to hand-coded assembly language. The results are software systems that are not portable, less robust, and more costly to ...

Keywords: user-directed code improvement

11 [Digital libraries and knowledge disaggregation: the use of journal article components](#)

Ann Peterson Bishop

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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[Visibility culling using hierarchical occlusion maps](#)

Hansong Zhang, Dinesh Manocha, Tom Hudson, Kenneth E. Hoff
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

Full text available: [pdf\(597.69 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: hierarchical data structures, image pyramid, interactive display, occlusion culling, visibility culling

13 The cognitive jogthrough: a fast-paced user interface evaluation procedure

David E. Rowley, David G. Rhoades

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: [pdf\(667.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Walkthrough techniques have been shown to be an effective supplement to empirical testing methods for evaluating the usability of software systems [3, 4]. Unfortunately, structured walkthrough procedures tend to be time-consuming and unpopular with evaluators when used on substantial tasks. To maximize the useful information obtained from walkthroughs while minimizing the overhead of the procedure itself, a fast-paced methodology was developed and used within the constraints of a real-world ...

Keywords: design methodologies, structured walkthroughs, user interface evaluation techniques

14 Papers: Symbolic word clustering for medium-size corpora

Benoit Habert, Elie Naulleau, Adeline Nazarenko

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 1**

Full text available: [pdf\(460.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

When trying to identify essential concepts and relationships in a medium-size corpus, it is not always possible to rely on statistical methods, as the frequencies are too low. We present an alternative method, symbolic, based on the simplification of parse trees. We discuss the results on nominal phrases of two technical corpora, analyzed by two different robust parsers used for terminology updating in an industrial company. We compare our results with Hindle's scores of similarity.

15 Semantics: Incremental interpretation: applications, theory, and relationship to dynamic semantics

David Milward, Robin Cooper

August 1994 **Proceedings of the 15th conference on Computational linguistics - Volume 2**

Full text available: [pdf\(652.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Why should computers interpret language incrementally? In recent years psycholinguistic evidence for incremental interpretation has become more and more compelling, suggesting that humans perform semantic interpretation before constituent boundaries, possibly word by word. However, possible computational applications have received less attention. In this paper we consider various potential applications, in particular graphical interaction and dialogue. We then review the theoretical and computat ...

16 Engineering e-learning systems (ELS): Evaluating adaptive hypermedia authoring

while teaching adaptive systems

Alexandra Cristea

March 2004 Proceedings of the 2004 ACM symposium on Applied computingFull text available:  pdf(272.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present an interesting experiment of combining teaching and research: the testing of MOT, an adaptive hypermedia authoring tool based on the LAOS adaptive hypermedia authoring framework, via a class of about twenty graduate students from the Eindhoven University of Technology, taking a two week intensive course in Adaptive Systems and User Modeling. We will show what the incentives of the experiment were, by giving a short description of LAOS, the theoretical background; then we ...

Keywords: AHS, adaptive authoring, adaptive hypermedia, ontology**17 Measurement and color matching: Optimizing color matching in a lighting reproduction system for complex subject and illuminant spectra** 

A. Wenger, T. Hawkins, P. Debevec

June 2003 Proceedings of the 14th Eurographics workshop on RenderingFull text available:  pdf(10.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a technique for improving color matching results in an LED-based lighting reproduction system for complex light source spectra. In our technique, we use measurements of the spectral response curve of the camera system as well as one or more spectral reflectance measurements of the illuminated object to optimize the color matching. We demonstrate our technique using two LED-based light sources: an off-the-shelf 3-channel RGB LED light source and a custom-built 9-channel multi- ...

18 Logic/learning: First order heterogeneous agent computations 

Bogdan Stroe, V. S. Subrahmanian

July 2003 Proceedings of the second international joint conference on Autonomous agents and multiagent systemsFull text available:  pdf(244.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Eiter et. al. (1999) have developed a semantics for agents built on top of legacy code bases. In this paper, we study positive agents in their setting. Their semantics are given in terms of "ground" status atoms. In this paper, we argue that the requirement of being ground poses a huge computational overhead. We propose a non-ground semantics for heterogeneous agents in which the semantical structures proposed by Eiter et. al. can be succinctly represented. We use this representation to efficien ...

Keywords: heterogeneous agents, non-ground representations**19 Formalizing the safety of Java, the Java virtual machine, and Java card** 

Pieter H. Hartel, Luc Moreau

December 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 4Full text available:  pdf(442.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

20 [Simplifying termination proofs for rewrite systems by preprocessing](#)

Bernhard Gramlich

September 2000 **Proceedings of the 2nd ACM SIGPLAN international conference on Principles and practice of declarative programming**

Full text available: [!\[\]\(1a2e9c86c2a63dd0890db1012b677415_img.jpg\) pdf\(331.77 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



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Relevance scale **1 Detecting local symmetry axis in 3-dimensional virus structures**

Jing He, Desh Ranjan, Wen Jiang, Wah Chiu, Michael F. Schmid

January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29**Full text available:  [pdf\(341.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents an efficient computational method to identify a local symmetry axis in 3-dimensional viral structures obtained using electron cryomicroscopy. Local symmetry is frequently observed in viral structures. Many virus structures have various types of local symmetry such as 2-fold, 3-fold and 6-fold that exist in certain limited regions on the 3-dimensional structure. Locations of local symmetry axes can be used in structure averaging as well as in detecting small structural variati ...

Keywords: algorithm, electron cryomicroscopy, local symmetry, structure**2 Session 19: biomedical applications: Orientation determination in the 3D reconstruction of icosahedral viruses using a parallel computer**

C. A. Johnson, N. I. Weisenfeld, B. L. Trus, J. F. Conway, R. L. Martino, A. C. Steven

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Three dimensional image reconstruction from cryo-electron micrographs allows the capsid structures of icosahedral viruses to be studied. The most computationally demanding stages of the reconstruction process are those that find and refine the orientations of the virus particles. We have devised and implemented parallel solutions to the problem of determining these orientations. By enabling determination of the orientations of far more particles than previously had been possible, parallel proces ...

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Ricard, David Coeurjolly, and Atilla Baskurt Laboratoire LIRIS, CNRS FRE ...

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... In section 4, **Angular Radial Transform** (ART) is presented. ... 4 **Angular Radial Transform**

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... J. Ricard, D. Coeurjolly, A. Baskurt, Generalization of **Angular Radial Transform**, IEEE 2004 International Conference on Image Processing, ICIP 2004, Singapore ...

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... **Angular Radial Transform**, Akcay Mahmut, Baskurt Atilla, Sankur Bulent, Measuring similarity between color image regions, Paper #284. ...

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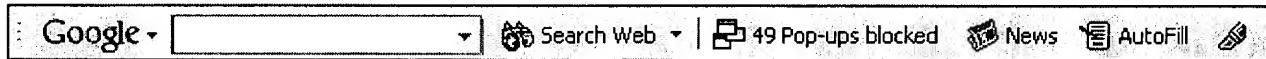
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... representation and a region-based descriptor (description of a simple or complex object based on all its shapes) based on the **Angular Radial Transform** (ART) [5 ...

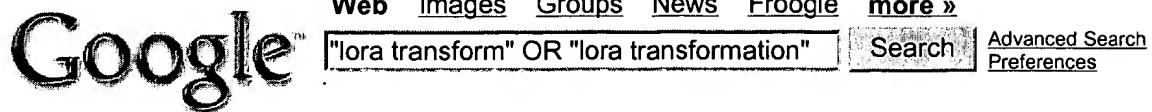
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images.

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TI LOCAL RADIAL-ANGULAR TRANSFORMATION OF
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AN 1992:4076001 INSPEC DN A9205-4230-025; B9203-6140C-024
TI Local radial-angular transformation of
images.
AU Trifonov, M.I.; Medinnikov, P.A. (S.I. Vavilov State Opt. Inst.,
Leningrad, USSR)
SO Soviet Journal of Optical Technology (April 1991) vol.58, no.4, p.235-8. 1
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Translation of: Optiko-Mekhanicheskaya Promyshlennost (April 1991) vol.58,
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CODEN: OPMPAQ ISSN: 0030-4042
DT Journal; Translation Abstracted
TC Theoretical; Experimental
CY USSR; United States
LA English
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of images by means of a correction of the transformation coefficients is
shown to be possible.

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GA The Genuine Article (R) Number: GR177
TI LOCAL RADIAL-ANGULAR TRANSFORMATION OF
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AU TRIFONOV M I (Reprint); MEDINNIKOV P A

CS SI VAVILOV STATE OPT INST, LENINGRAD, USSR (Reprint)
CYA USSR
SO SOVIET JOURNAL OF OPTICAL TECHNOLOGY, (1991) Vol. 58, No. 4, pp. 235-238.
DT Article; Journal
FS ENGI
LA ENGLISH
REC No References Keyed
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L3 498 HEXON#

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L4 23 HEXON# AND IMAGE#

=> d 1-23 ti

L4 ANSWER 1 OF 23 INSPEC (C) 2004 IEE on STN
TI The X-ray crystal structure of P3, the major coat protein of the lipid-containing bacteriophage PRD1, at 1.65 AA resolution.

L4 ANSWER 2 OF 23 INSPEC (C) 2004 IEE on STN
TI Refinement of herpesvirus B-capsid structure on parallel supercomputers.

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